

RF Exposure Evaluation

FCC ID: 2AM74-R5

1. Client Information

Applicant : Shenzhen Newwear Technology Co.,Ltd
Address : Room 1203, Jinhua Building, Dalang Street, Longhua District,
Shenzhen City, Guangdong Province, P.R. China
Manufacturer : Shenzhen Newwear Technology Co.,Ltd
Address : Room 1203, Jinhua Building, Dalang Street, Longhua District,
Shenzhen City, Guangdong Province, P.R. China

2. General Description of EUT

EUT Name	:	Smart watch	
Models No.	:	R5, R1, R3, R7, R8, R9, R10, R11, R18, R20	
Model Different	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is appearance color.	
Product Description	:	Operation Frequency:	Bluetooth V4.0: 2402MHz~2480MHz
	:	RF Output Power:	BLE:-1.216 dBm (Max)
	:	Antenna Gain:	2dBi FPC Antenna
Power Supply	:	DC Voltage Supply from USB cable. DC Supply by the Li-ion Battery.	
Power Rating	:	DC 3.7V 200mAh by Li-ion Battery. Input: DC 5V 0.17A	
Software Version	:	00660100	
Hardware Version	:	V1.1	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer the RF Test Report.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{GHz}}}] \leq 3.0$ for 1-g SAR

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] * $[\sqrt{f_{\text{GHz}}}] \leq 7.5.0$ for 10-g SAR

2. Calculation:

Test separation: 5mm						
BLE Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	-1.216	-1±1	0	1.00	0.310	3.0
2.442	-2.321	-2±1	-1	0.79	0.248	3.0
2.480	-3.034	-3±1	-2	0.63	0.199	3.0

So standalone SAR measurements are not required.

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